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Lacroix; Emmanuel, Paris, FR

Reina; Jose, Heidelberg, DE

Serrano; Luis, Heidelberg, DE

IN Gonzalez Cayetano (DE); Lacroix Emmanuel (FR); Reina Jose (DE); Serrano  
Luis (DE)

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DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 133

GI 15 Figure(s).

FIG. 1 illustrates an embodiment of the methods of the present invention.  
FIGS. 2A-C illustrate a first exemplary precursor protein domain.

FIGS. 3A-B illustrate a second exemplary precursor protein domain.

FIGS. 4A-B illustrate a third exemplary precursor protein domain.

FIG. 5 illustrates exemplary systems of the present invention.

FIG. 6 illustrates a schematic description of the preferred computer-assisted molecular design software, known as Perla.

FIG. 7 illustrates plasmid pQEPDZ3, a plasmid containing a fusion between the third PDZ domain of PSD95 (amino acid 302402) and the polyhistidine (6XHis).

FIG. 8 illustrates interactions between different PDZ domains and target peptides revealed by two-hybrid analysis. The plate labeled Eg5B contains the following results: (A) PDZEG5+EGFP; (B) PDZEB5+EGFP-tub; (C) PDZEG5+EGFP-pep; (D) PDZEG5+GalBD; (E) PDZEG5+EGFP-Eg5 and (F) PDZ-3+EGFP-eg5. Only the PDZEG5+EGFP-Eg5 combination results in viable cells showing that the redesigned PDZEG5 domain specifically interacts with its target peptide present in the EGFP-Eg5 fusion protein. The plate labeled PDZ-3 contains the following results: (A) PDZ-3+EGFP; (B) PDZ-3+EGFP-tub; (C) PDZ-3EGFP-Eg5; (D) GalAD+GalBD; (E) PDZ3+EGFP-pep; (F) PDZ-3+EGFP-pep. This is the positive control showing that the PDZ-3 domain specifically interacts with its target peptide present in the EGFP-pep fusion protein.

FIG. 9 illustrates affinity chromatography. The original PDZ domain (PDZ-3) and the redesigned PDZ (PDZ-Eg5) were immobilized in a solid phase and their efficiency to bind nonmodified GFP (A) and GFP fused to either the C-terminal peptide recognized by the original PDZ (B) or the C-terminal peptide of Eg-5 (C) was determined by Western Blot. PDZ-3 binds only to its naturally recognized target peptide. The re-designed PDZEG5 binds only to the Eg-5 C-terminal peptide.

FIG. 10 illustrates sub-cellular localization of a protein fusion made of GFP and a PDZ domain that had been engineered to recognize the centrosome-associated protein Eg5. The redesigned PDZ domain that recognizes the C-terminus of Eg5 (PDZ-Eg5B) fused to GFP can be seen to accumulate around the microtubule organizing center where Eg5 is located (See, e.g., Cell 83:11591169 (1995); J Neurosciences 18:7822-7835 (1998)).

FIG. 11 illustrates combining two separate PCR products with overlapping sequence into one longer product. The two overlapping primers are shown containing a mismatched base to the target sequence.

FIG. 12 illustrates using inside primers for the creation of deletions (A) or small insertions (B).

FIG. 13 illustrates recombinant PCR. Primers and sequences are shown for the joining of gene and promoter sequences.

FIG. 14 illustrates determination of the affinity of a domain to a target by means of micro-calorimetry.

FIG. 15 illustrates the results of methods of the present invention applied to re-design a wild type PDZ domain (designated PDZ-Wt\*) to bind to its natural target, the last nine amino acids of the protein CRIPT (designated as "pep"). In (A), the re-designed domain (PDZ-Wt\*) is bound to a **substrate for affinity purification** of GFP (green fluorescent protein) alone (lane labeled "GFP"), GFP fused with last nine amino acids of CRIPT (lane labeled "GFP-Pep"), and GFP fused with the last nine amino acids of eg5 Kinesin (lane labeled "GFP-eg5"). (A) demonstrates that PDZ-Wt\* binds only to GFP-pep. In (B), two-hybrid assay results of PDZ-Wt\* fused to the activation domain of gal4 (labeled pGAD wt\*) with different GFP-fusions: "pGBKT7-GFP" designating GFP fused to the binding domain of GAL4; "pGBKT7-GFP-pep" designating GFP-pep fused to the binding domain of GAL4; and pGBKT7-GFP-eg5 designating GFP-eg5 fused to the binding domain of GAL4. (B) demonstrates cell viability occurs only when pGAD wt\* binds to pGBKT7-GFP-pep.

AB The present invention rapidly and efficiently provides proteins engineered to bind to arbitrary target proteins requiring only knowledge of the amino acid sequences of short portions of the target proteins (for example, either the amino or the carboxy termini). This invention provides such proteins as well as methods and systems for their design,

synthesis and use, and especially provides for use of a plurality of binding proteins in array format. The engineering methods of the present invention take a precursor protein known to already bind to a short peptide and engineer alterations in precursor proteins so that it binds to a new target peptide by using computerassisted molecular design techniques and optional assay for actual binding. The invention also provides arrays and libraries of binding proteins and methods of using binding proteins.

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baek\_kim@urmc.rochester.edu  
SO Biotechniques, (November, 2001) Vol. 31, No. 5, pp. 1194-1203. print.  
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ED Entered STN: 14 Feb 2002  
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AB Site-specific proteases, which catalyze cleavage of peptide bonds in specific amino acid sequences of target proteins, play important roles in various biological events of many living organisms. In humans, disruption in regulation of these site-specific proteases can lead to pathological consequences. Here, we report a simple in vitro assay for enzymatic activities of site-specific proteases. This assay system employs a protein substrate molecule that is comprised of (i) His-tag binding module, (ii) cleavage sites, and (iii) green fluorescent protein (GFP) detection module. In this study, prostate-specific antigen (PSA) and Thrombin-specific cleavage sites were introduced into the substrate molecules. The overexpressed **GFP substrate** protein was **purified** with the aid of Ni<sup>++</sup>-charged magnetic beads. On cleavage by either PSA or Thrombin, GFP was released from the bound magnetic beads, enabling a direct measurement of the cleaved product by fluorescence. Detection sensitivity, as well as the kinetics of reaction of PSA cleavage with the GFP substrate, was similar or better than commercially available PSA fluorogenic peptide substrate. This bead-attached GFP substrate was also used for an inhibition assay using a competitive inhibitor of Thrombin. In conclusion, this assay offers a simple fluorescent method for monitoring the activity of the site-specific proteases. Furthermore, this system provides flexible means of incorporating varying sizes of flanking sequences adjacent to the cleavage site, which can be essential for studying the regulatory macromolecular interactions between proteases and their substrates.

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DN 21586493 PubMed ID: 11730026  
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AU Patel D; Frelinger J; Goudsmit J; Kim B  
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NC CA70218 (NCI)  
SO BIOTECHNIQUES, (2001 Nov) 31 (5) 1194, 1196, 1198 passim.  
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AB Site-specific proteases, which catalyze cleavage of peptide bonds in specific amino acid sequences of target proteins, play important roles in various biological events of many living organisms. In humans, disruption in regulation of these site-specific proteases can lead to pathological consequences. Here, we report a simple *in vitro* assay for enzymatic activities of site-specific proteases. This assay system employs a protein substrate molecule that is comprised of (i) His-tag binding module, (ii) cleavage sites, and (iii) green fluorescent protein (GFP) detection module. In this study, prostate-specific antigen (PSA) and Thrombin-specific cleavage sites were introduced into the **substrate** molecules. The overexpressed **GFP** **substrate** protein was **purified** with the aid of Ni<sup>++</sup>-charged magnetic beads. On cleavage by either PSA or Thrombin, GFP was released from the bound magnetic beads, enabling a direct measurement of the cleaved product by fluorescence. Detection sensitivity, as well as the kinetics of reaction of PSA cleavage with the GFP substrate, was similar or better than commercially available PSA fluorogenic peptide substrate. This bead-attached GFP substrate was also used for an inhibition assay using a competitive inhibitor of Thrombin. In conclusion, this assay offers a simple fluorescent method for monitoring the activity of the site-specific proteases. Furthermore, this system provides flexible means of incorporating varying sizes of flanking sequences adjacent to the cleavage site, which can be essential for studying the regulatory macromolecular interactions between proteases and their substrates.

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FILE 'ULIDAT' ENTERED AT 16:38:37 ON 05 MAR 2004  
COPYRIGHT (C) 2004 Umweltbundesamt, D-14191 Berlin (UBA)

=> s protease (4A) (product)  
25 FILES SEARCHED...  
54 FILES SEARCHED...  
65 FILES SEARCHED...  
88 FILES SEARCHED...  
L13 28649 PROTEASE (4A) (PRODUCT)

=> s product (3A) (purify or purifying or purified or purification or isolate  
isolated or isolating or isolation)  
18 FILES SEARCHED...  
30 FILES SEARCHED...  
49 FILES SEARCHED...  
62 FILES SEARCHED...  
74 FILES SEARCHED...  
96 FILES SEARCHED...  
L14 157502 PRODUCT (3A) (PURIFY OR PURIFYING OR PURIFIED OR PURIFICATION  
OR ISOLATE ISOLATED OR ISOLATING OR ISOLATION)

=> s l13 (5A) l14  
53 FILES SEARCHED...  
L15 91 L13 (5A) L14

=> duplicate  
ENTER REMOVE, IDENTIFY, ONLY, OR (?) :remove  
ENTER L# LIST OR (END) :l15  
DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE,  
DRUGMONOG2, IMSRESEARCH, FEDRIP, FOREGE, GENBANK, IMSPRODUCT, KOSMET,  
MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, RDISCLOSURE, SYNTHLINE, CHEMLIST,  
HSDB, MSDS-CCOHS, MSDS-OHS, RTECS, CONF, IMSDRUGCONF, DIOGENES, INVESTTEXT,  
USAN, FORIS, FORKAT, UFORDAT, AQUIRE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
DUPLICATE PREFERENCE IS 'AQUASCI, BIOBUSINESS, BIOSIS, BIOTECHABS, BIOTECHNO, CABA,  
CAPLUS, CEABA-VTB, DISSABS, EMBASE, ESBIOBASE, FEDRIP, IFIPAT, JICST-EPLUS,  
LIFESCI, MEDLINE, OCEAN, PASCAL, RDISCLOSURE, SCISEARCH, TOXCENTE'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N) :n  
PROCESSING COMPLETED FOR L15

L16 62 DUPLICATE REMOVE L15 (29 DUPLICATES REMOVED)

=> d 1-62 bib

L16 ANSWER 1 OF 62 USPATFULL on STN  
AN 2004:51633 USPATFULL  
TI Amine 1,2- and 1,3-diol compounds  
IN Romero, Arthur G., Kalamazoo, MI, UNITED STATES  
Schostarez, Heinrich J., Portage, MI, UNITED STATES  
Roels, Christina M., Battle Creek, MI, UNITED STATES  
PI US 2004039064 A1 20040226  
AI US 2002-299739 A1 20021119 (10)  
PRAI US 2001-333081P 20011119 (60)  
US 2001-334000P 20011128 (60)  
US 2002-362752P 20020308 (60)  
DT Utility  
FS APPLICATION  
LREP Paul S. Tully, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.  
Wacker Drive, Chicago, IL, 60606  
CLMN Number of Claims: 37  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 10130

L16 ANSWER 2 OF 62 USPATFULL on STN  
AN 2003:165913 USPATFULL  
TI Synthetic substrate for high specificity enzymatic assays  
IN Zweig, Stephen Eliot, Los Gatos, CA, UNITED STATES  
PI US 2003113768 A1 20030619  
AI US 2002-233908 A1 20020903 (10)  
PRAI US 2001-317023P 20010904 (60)  
DT Utility  
FS APPLICATION  
LREP STEPHEN E. ZWEIG, 224 VISTA DE SIERRA, LOS GATOS, CA, 95030  
CLMN Number of Claims: 22  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Page(s)  
LN.CNT 2036  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 3 OF 62 USPATFULL on STN  
AN 2003:79144 USPATFULL  
TI Aza- and polyaza-naphthalenyl carboxamides useful as HIV integrase  
inhibitors  
IN Anthony, Neville J., Hatfield, PA, UNITED STATES  
Gomez, Robert P., Perkasie, PA, UNITED STATES  
Young, Steven D., Lansdale, PA, UNITED STATES  
Egbertson, Melissa, Ambler, PA, UNITED STATES  
Wai, John S., Harleyville, PA, UNITED STATES  
Zhuang, Linghang, Chalfont, PA, UNITED STATES  
Embrey, Mark, North Wales, PA, UNITED STATES  
Tran, LeKhanh, Norristown, PA, UNITED STATES  
Melamed, Jeffrey Y., Doylestown, PA, UNITED STATES  
Langford, H. Marie, Lansdale, NJ, UNITED STATES  
Guare, James P., Quakertown, PA, UNITED STATES  
Fisher, Thorsten E., Hatfield, PA, UNITED STATES  
Jolly, Samson M., Quakertown, PA, UNITED STATES  
Kuo, Michelle S., Gwynedd Valley, PA, UNITED STATES  
Perlow, Debra S., East Greenville, PA, UNITED STATES  
Bennett, Jennifer J., East Norriton, PA, UNITED STATES  
Funk, Timothy W., Ephrata, PA, UNITED STATES  
PI US 2003055071 A1 20030320  
AI US 2001-973853 A1 20011010 (9)  
PRAI US 2000-239707P 20001012 (60)  
US 2001-281656P 20010405 (60)  
DT Utility  
FS APPLICATION

LREP MERCK AND CO INC, P O BOX 2000, RAHWAY, NJ, 070650907  
CLMN Number of Claims: 36  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 11919  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 4 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1  
AN 2003:721763 CAPLUS  
DN 139:323783  
TI Native chemical ligation with aspartic and glutamic acids as C-terminal residues: Scope and limitations  
AU Villain, Matteo; Gaertner, Hubert; Botti, Paolo  
CS Geneva Branch, Protein Synthesis, GeneProt Inc., Meyrin, 1217, Switz.  
SO European Journal of Organic Chemistry (2003), (17), 3267-3272  
CODEN: EJOCFK; ISSN: 1434-193X  
PB Wiley-VCH Verlag GmbH & Co. KGaA  
DT Journal  
LA English  
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 5 OF 62 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN DUPLICATE 2  
AN 2003484788 EMBASE  
TI Rapid Diversity-Oriented Synthesis in Microtiter Plates for in Situ Screening of HIV Protease Inhibitors.  
AU Brik A.; Muldoon J.; Lin Y.-C.; Elder J.H.; Goodsell D.S.; Olson A.J.; Fokin V.V.; Sharpless K.B.; Wong C.-H.  
CS Prof. V.V. Fokin, Department of Chemistry, Skaggs Inst. for Chemical Biology, Scripps Research Institute, 10550 North Torrey Pines Road, San Diego, CA 920, United States. fokin@scripps.edu  
SO ChemBioChem, (7 Nov 2003) 4/11 (1246-1248).  
Refs: 26  
ISSN: 1439-4227 CODEN: CBCHFX  
CY Germany  
DT Journal; Article  
FS 030 Pharmacology  
037 Drug Literature Index  
LA English  
SL English

L16 ANSWER 6 OF 62 BABS COPYRIGHT 2004 BEILSTEIN MDL on STN  
AN 6405273 BABS  
TI Native Chemical Ligation with Aspartic and Glutamic Acids as C-Terminal Residues: Scope and Limitations  
AU Villain, Matteo; Gaertner, Hubert; Botti, Paolo  
SO Eur.J.Org.Chem. (2003), (17), 3267 - 3272  
CODEN: EJOCFK  
DT Journal  
LA English  
SL English

L16 ANSWER 7 OF 62 USPATFULL on STN DUPLICATE 3  
AN 2002:314729 USPATFULL  
TI Method for rapidly obtaining crystals with desirable morphologies  
IN Heng, Meng H., Belmont, CA, UNITED STATES  
PI US 2002177206 A1 20021128  
US 6593118 B2 20030715  
AI US 2001-53199 A1 20011102 (10)  
RLI Division of Ser. No. US 2000-518786, filed on 3 Mar 2000, GRANTED, Pat.  
No. US 6403350  
PRAI US 1999-123147P 19990305 (60)  
DT Utility

FS APPLICATION  
LREP Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA,  
94034-1013  
CLMN Number of Claims: 20  
ECL Exemplary Claim: 1  
DRWN 2 Drawing Page(s)  
LN.CNT 314  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 8 OF 62 USPATFULL on STN  
AN 2002:32581 USPATFULL  
TI Methods to treat alzheimer's disease  
IN Hom, Roy, San Francisco, CA, UNITED STATES  
Mamo, Shumeye S., Oakland, CA, UNITED STATES  
Tung, Jay, Belmont, CA, UNITED STATES  
Gailunas, Andrea, San Francisco, CA, UNITED STATES  
John, Varghese, San Francisco, CA, UNITED STATES  
Fang, Lawrence Y., Foster City, CA, UNITED STATES  
PI US 2002019403 A1 20020214  
AI US 2001-816876 A1 20010323 (9)  
PRAI US 2000-191528P 20000323 (60)  
DT Utility  
FS APPLICATION  
LREP MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903  
CLMN Number of Claims: 63  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 8655  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 9 OF 62 USPATFULL on STN  
AN 2002:136795 USPATFULL  
TI Method for rapidly obtaining enzyme crystals with desirable morphologies  
IN Heng, Meng H., Belmont, CA, United States  
PA Genencor International, Inc., Palo Alto, CA, United States (U.S.  
corporation)  
PI US 6403350 B1 20020611  
AI US 2000-518786 20000303 (9)  
PRAI US 1999-123147P 19990305 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Naff, David M.; Assistant Examiner: Meller, Mike  
LREP Genencor International, Inc.  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 290  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 10 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2002-353070 [39] WPINDEX  
DNC C2002-100443  
TI Giant well combinator proteinase inhibitor, useful for treating tumor,  
gastritis and pancreatitis.  
DC B04 D16  
IN LAI, R; ZHANG, Y; ZHENG, Y  
PA (KUNM-N) KUNMING ZOOLOGY INST CHINESE ACAD SCI  
CYC 1  
PI CN 1336385 A 20020220 (200239)\*  
ADT CN 1336385 A CN 2000-122416 20000729  
PRAI CN 2000-122416 20000729

L16 ANSWER 11 OF 62 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 4

AN 2002:382534 BIOSIS  
DN PREV200200382534  
TI Excretory bladder: The source of cysteine proteases in *Paragonimus westermani* metacercariae.  
AU Yang, Hyun-Jong; Chung, Young-Bae [Reprint author]; Kang, Shin-Yong; Kong, Yoon; Cho, Seung-Yull  
CS Department of Parasitology, College of Medicine, Cheju National University, Jeju, 690-756, South Korea  
ybchung@webmail.cheju.ac.kr  
SO Korean Journal of Parasitology, (June, 2002) Vol. 40, No. 2, pp. 89-92.  
print.  
CODEN: KSCHAV. ISSN: 0368-6809.  
DT Article  
LA English  
ED Entered STN: 10 Jul 2002  
Last Updated on STN: 10 Jul 2002

L16 ANSWER 12 OF 62 USPATFULL on STN  
AN 2001:43995 USPATFULL  
TI Crystalline protease and method for producing same  
IN Gros, Ernst Hakan, Kantvik, Finland  
Cunefare, Jerry L., Espoo, Finland  
PA Genencor International, Inc., Palo Alto, CA, United States (U.S. corporation)  
PI US 6207437 B1 20010327  
AI US 1996-615343 19960311 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Weber, Jon P.  
LREP Genencor International, Inc.  
CLMN Number of Claims: 21  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 409  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 13 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2000-271358 [23] WPINDEX  
DNC C2000-082850  
TI Preparation of phenyl thioethers from 4-hydroxypyran-2-ones and thiosulfonic esters, useful for treatment of HIV and AIDS.  
DC B03 B05  
IN FEDIJ, V; GAJDA, C A; HUCKABEE, B K; MOON, B S; PORTER, K T; SOBIERAY, D M; STUK, T L; TAIT, B D; WEMPLE, J N  
PA (WARN) WARNER LAMBERT CO; (FEDIJ-I) FEDIJ V; (GAJD-I) GAJDA C A; (HUCK-I) HUCKABEE B K; (MOON-I) MOON B S; (PORT-I) PORTER K T; (SOBI-I) SOBIERAY D M; (STUK-I) STUK T L; (TAIT-I) TAIT B D; (WEMP-I) WEMPLE J N  
CYC 77  
PI WO 2000015625 A2 20000323 (200023)\* EN 151p  
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL  
OA PT SD SE SL SZ UG ZW  
W: AE AL AU BA BB BG BR CA CN CU CZ EE GD GE HR HU ID IL IN IS JP KP  
KR LC LK LR LT LV MG MK MN MX NO NZ PL RO SG SI SK SL TR TT UA US  
UZ VN YU ZA  
AU 9950896 A 20000403 (200034)  
US 6380400 B1 20020430 (200235)  
ADT WO 2000015625 A2 WO 1999-US15118 19990701; AU 9950896 A AU 1999-50896  
19990701; US 6380400 B1 Provisional US 1998-99944P 19980911, WO  
1999-US15118 19990701, US 2000-674381 20001031  
FDT AU 9950896 A Based on WO 2000015625; US 6380400 B1 Based on WO 2000015625  
PRAI US 1998-99944P 19980911; US 2000-674381 20001031

L16 ANSWER 14 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1999-05694 BIOTECHABS

TI New purified proteolytic enzyme for preparation of baby food;  
trypsin purification for use in the food industry  
AU Braun M; Neumann F  
PA Nestle  
LO Vevey, Switzerland.  
PI EP 899331 3 Mar 1999  
AI EP 1997-202591 22 Aug 1997  
PRAI CH 1997-202591 22 Aug 1997  
DT Patent  
LA French  
OS WPI: 1999-144802 [13]

L16 ANSWER 15 OF 62 USPATFULL on STN  
AN 1999:128367 USPATFULL  
TI Method for detecting the presence of protein C antibody in a fluid  
sample  
IN Griffin, John H., Del Mar, CA, United States  
Mesters, Rolf M., La Jolla, CA, United States  
PA The Scripps Research Institute, La Jolla, CA, United States (U.S.  
corporation)  
PI US 5968751 19991019  
AI US 1997-955471 19971021 (8)  
RLI Division of Ser. No. US 1994-295411, filed on 22 Aug 1994, now patented,  
Pat. No. US 5679639 which is a continuation of Ser. No. US 1991-793989,  
filed on 18 Nov 1991, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Housel, James C.; Assistant Examiner: Devi, S.  
LREP Fitting, Thomas, Northrup, Thomas E., Holmes, Emily  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 3806  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 16 OF 62 USPATFULL on STN  
AN 1999:36935 USPATFULL  
TI Vaccine containing a serine protease  
IN Dalton, John P., Dublin, Ireland  
Andrews, Stuart J., Staines, England  
PA Mallinckrodt Veterinary, Inc., Mundelein, IL, United States (U.S.  
corporation)  
PI US 5885814 19990323  
WO 9428925 19941222  
AI US 1996-564091 19960426 (8)  
WO 1994-GB1274 19940614  
19960426 PCT 371 date  
19960426 PCT 102(e) date  
PRAI GB 1993-12324 19930615  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Hutzell, Paul K.; Assistant Examiner: Masood, Khalid  
LREP Rothwell, Figg, Ernst & Kurz  
CLMN Number of Claims: 1  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 376  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 17 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:71150 CAPLUS  
DN 132:344707  
TI Purification of fungal protease produced by *Mucor racemosus* f. *racemosus*  
PDA 103 from Korean traditional meju

AU Lim, Seong-Il; Yoo, Jin-Young  
CS Division of Chemistry and Biotechnology, Korea Food Research Institute,  
Kyonggido, 463-420, S. Korea  
SO Sanop Misaengmul Hakhoechi (1999), 27(6), 446-451  
CODEN: SMHAEH; ISSN: 0257-2389  
PB Korean Society for Applied Microbiology  
DT Journal  
LA Korean

L16 ANSWER 18 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:185498 CAPLUS  
DN 131:70104

TI **Purification** and properties of **product** of the  
thermostable **protease** gene from **Bacillus stearothermophilus**  
HY-69

AU Sun, Chao; Jin, Cheng; Yang, Shoujun; Zhang, Shuzheng  
CS Institute of Microbiology, The Chinese Academy of Sciences, Beijing,  
100080, Peop. Rep. China  
SO Shengwu Gongcheng Xuebao (1999), 15(1), 17-22  
CODEN: SGXUED; ISSN: 1000-3061  
PB Kexue Chubanshe  
DT Journal  
LA Chinese

L16 ANSWER 19 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:134498 CAPLUS  
DN 132:132321

TI Isolation and retrovirus protease inhibitory activity of triterpenes  
IN Zeng, Fa-Quan; Sim, Keng-Yeow; Xu, Hong-Xi; Wan, Min  
PA Dalhousie University, Can.; The National University of Singapore  
SO Can. Pat. Appl., 55 pp.  
CODEN: CPXXEB

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2209222	AA	19981227	CA 1997-2209222	19970627
PRAI	CA 1997-2209222		19970627		
OS	MARPAT	132:132321			

L16 ANSWER 20 OF 62 USPATFULL on STN

AN 1998:157169 USPATFULL

TI Proteases causing degradation of amyloid  $\beta$ -protein precursor  
IN Abraham, Carmela R., Lexington, MA, United States  
PA Trustees of Boston University, Boston, MA, United States (U.S.  
corporation)

PI US 5849560 19981215

AI US 1993-25321 19930226 (8)

RLI Continuation-in-part of Ser. No. US 1991-681093, filed on 5 Apr 1991,  
now patented, Pat. No. US 5200339 which is a continuation-in-part of  
Ser. No. US 1990-568806, filed on 17 Aug 1990, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Rollins, John W.; Assistant Examiner: Weber, Jon P.

LREP Choate, Hall & Stewart

CLMN Number of Claims: 3

ECL Exemplary Claim: 1

DRWN 16 Drawing Figure(s); 9 Drawing Page(s)

LN.CNT 1049

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 21 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1998-07395 BIOTECHABS

TI Direct combination of purification methods dramatically improves cohesive-end subcloning of PCR products;  
polymerase chain reaction **product purification**  
involving **protease**-K digestion, phenol-chloroform  
extraction, ethanol precipitation, column purification and  
endonuclease digestion  
AU Wybranietz W A; Lauer U  
CS Univ.Tubingen  
LO Department of Internal Medicine I, Medical University Clinic Tuebingen,  
Building C031-033, Otfried-Mueller-Str. 10, D-72076 Tuebingen, Germany.  
Email: wolfgang.wybranietz@uni-tuebingen.de  
SO BioTechniques; (1998) 24, 4, 578-80  
CODEN: BTNQDO ISSN: 0736-6205  
DT Journal  
LA English

L16 ANSWER 22 OF 62 USPATFULL on STN  
AN 97:96835 USPATFULL  
TI Serine protease derived-polypeptides and anti-peptide antibodies,  
systems and therapeutic methods for inhibiting coagulation  
IN Griffin, John H., Del Mar, CA, United States  
Mesters, Rolf M., La Jolla, CA, United States  
PA The Scripps Research Institute, La Jolla, CA, United States (U.S.  
corporation)  
PI US 5679639 19971021  
AI US 1994-295411 19940822 (8)  
RLI Continuation of Ser. No. US 1991-793989, filed on 18 Nov 1991, now  
abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Marshall, S. G.  
LREP Fitting, Thomas, Holmes, Emily  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 3624  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 23 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1996:237488 CAPLUS  
DN 124:311797  
TI Hydrophobic chromatographic resins with ionizable groups  
IN Burton, Simon C.; Harding, David R. K.; Becker, Nathaniel Todd; Builthuis,  
Ben A.; Steele, Landon M.  
PA Massey University, N. Z.  
SO PCT Int. Appl., 70 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
PI	WO 9600735	A1	19960111	WO 1995-IB598	19950623
	W: AU, CA, FI, JP, MX, NZ				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2193867	AA	19960111	CA 1995-2193867	19950623
	AU 9529354	A1	19960125	AU 1995-29354	19950623
	AU 682780	B2	19971016		
	EP 773954	A1	19970521	EP 1995-925095	19950623
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 10502339	T2	19980303	JP 1995-502987	19950623
	FI 9605233	A	19961227	FI 1996-5233	19961227
PRAI	US 1994-268178		19940629		
	WO 1995-IB598		19950623		

L16 ANSWER 24 OF 62 USPATFULL on STN  
AN 96:94555 USPATFULL  
TI Viral infection and proliferation inhibitors  
IN Yamamoto, Naoki, Tokyo, Japan  
Nakashima, Hideki, Tokyo, Japan  
Motsuchi, Wataru, Sagamihara, Japan  
Tanaka, Shigeaki, Ayase, Japan  
Dosako, Shun'ichi, Urawa, Japan  
Kawasaki, Yoshihiro, Kawagoe, Japan  
Uchida, Toshiaki, Kawagoe, Japan  
PA Snow Brand Milk Products Co., Ltd, Japan (non-U.S. corporation)  
PI US 5565425 19961015  
AI US 1994-204487 19940302 (8)  
PRAI JP 1993-69210 19930304  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Scheiner, Toni R.; Assistant Examiner: Huff, Sheela J.  
LREP Testa, Hurwitz & Thibeault, LLP  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 577  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 25 OF 62 AQUASCI COPYRIGHT (C) 2004 FAO (on behalf of the ASFA Advisory Board). All Rights Reserved. on STN DUPLICATE 6  
AN 1998:26995 AQUASCI  
DN ASFA1 1998 28-13239  
TI The effects of *Perkinsus marinus* extracellular **products** and **purified proteases** on oyster defence parameters in vitro  
AU Garreis, K.A.; La Peyre, J.F.; Faisal, M.\*  
CS Sch. Mar. Sci., Virginia Inst. Mar. Sci., Coll. William and Mary, Gloucester Point, VA 23062, USA  
SO FISH SHELLFISH IMMUNOL., (1996)1100) vol. 6, no. 8, pp. 581-597.  
ISSN: 1050-4648.  
DT Journal  
FS ASFA1  
LA English  
SL English

L16 ANSWER 26 OF 62 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 7  
AN 1996:574443 BIOSIS  
DN PREV199799289124  
TI Degradation by proteases Lon, Clp and HtrA, of *Escherichia coli* proteins aggregated in vivo by heat shock; HtrA protease action in vivo and in vitro.  
AU Laskowska, Ewa; Kuczynska-Wisnik, Dorota; Skorko-Glonek, Joanna; Taylor, Alina [Reprint author]  
CS Dep. Biochem., Univ. Gdansk, Kladki 24, 80-822 Gdansk, Poland  
SO Molecular Microbiology, (1996) Vol. 22, No. 3, pp. 555-571.  
CODEN: MOMIEE. ISSN: 0950-382X.  
DT Article  
LA English  
ED Entered STN: 23 Dec 1996  
Last Updated on STN: 11 Feb 1997

L16 ANSWER 27 OF 62 IFIPAT COPYRIGHT 2004 IFI on STN  
AN 02618674 IFIPAT;IFIUDB;IFICDB  
TI PROCESS FOR THE ENZYMATIC CLEAVAGE OF RECOMBINANT PROTEINS USING IGA PROTEASES; MODIFYING JUNCTION REGION BETWEEN TWO COMPONENTS OF FUSION PROTEIN TO FORM IMMUNOGLOBULIN A PROTEASE RECOGNITION SITE, CLEAVING, ISOLATING COMPONENT

INF Dony, Carola, Starnberg, DE  
Meyer, Thomas F, Tubingen, DE  
Pohlner, Johannes, Tubingen, DE  
Schumacher, Gunter, Bernried, DE  
IN Dony Carola (DE); Meyer Thomas F (DE); Pohlner Johannes (DE); Schumacher Gunter (DE)  
PAF Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften EV, Gottingen, DE  
PA Planck-Gesell, Max- zur Forderung der Wissenschaften DE (53200)  
EXNAM Patterson, Jr, Charles L  
AG Felfe & Lynch  
PI US 5427927 A 19950627 (CITED IN 002 LATER PATENTS)  
WO 9111520 19910808  
AI US 1992-917034 19920830  
WO 1991-EP192 19910201  
19920830 PCT 371 date  
19920830 PCT 102(e) date  
XPD 27 Jun 2012  
PRAI DE 1990-4003149 19900203  
DE 1990-4015921 19900517  
DE 1990-4015922 19900517  
DE 1990-4039415 19901210  
FI US 5427927 19950627  
DT Utility  
FS CHEMICAL  
GRANTED  
MRN 006386 MFN: 0205  
CLMN 57  
GI 4 Drawing Sheet(s), 4 Figure(s).

L16 ANSWER 28 OF 62 USPATFULL on STN  
AN 95:71464 USPATFULL  
TI Fibronectin binding peptide  
IN Hook, Magnus, 129 Stevens Hill Cir., Birmingham, AL, United States  
35244  
McGavin, Martin, 1717 Beacon Crest Cir., Birmingham, AL, United States  
35209  
Raucci, Giuseppe, Via Tito Speri 10, I-00040 Pomezia, Rome, Italy  
PI US 5440014 19950808  
AI US 1994-234622 19940428 (8)  
RLI Continuation of Ser. No. US 1993-55783, filed on 3 May 1993, now  
abandoned which is a continuation of Ser. No. US 1992-846995, filed on 8  
Jun 1992, now abandoned  
PRAI SE 1990-2617 19900810  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Warden, Jill; Assistant Examiner: Marshall, S. G.  
LREP Burns, Doane, Swecker & Mathis  
CLMN Number of Claims: 1  
ECL Exemplary Claim: 1  
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 679  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 29 OF 62 USPATFULL on STN  
AN 95:71269 USPATFULL  
TI Method of preparation of purified alkaline protease  
IN Shetty, Jayarama K., Elkhart, IN, United States  
Patel, Chimanbhai P., Mishawaka, IN, United States  
Nicholson, Mary Ann, Portage, MI, United States  
PA Solvay Enzymes, Inc., Houston, TX, United States (U.S. corporation)  
PI US 5439817 19950808  
AI US 1993-6484 19930121 (8)  
RLI Division of Ser. No. US 1991-813705, filed on 27 Dec 1991, now patented,

Pat. No. US 5256557  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Robinson, Douglas W.  
LREP Willian Brinks Hofer Gilson & Lione  
CLMN Number of Claims: 7  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 1092  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 30 OF 62 USPATFULL on STN  
AN 95:31791 USPATFULL  
TI Purified enzyme concentrate and method of preparation  
IN Shetty, Jayarama K., Elkhart, IN, United States  
Patel, Chimanbhai P., Mishawaka, IN, United States  
PA Solvay Enzymes, Inc., Houston, TX, United States (U.S. corporation)  
PI US 5405767 19950411  
AI US 1992-865252 19920408 (7)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Lankford, L.  
Blaine  
LREP Willian Brinks Hofer Gilson & Lione  
CLMN Number of Claims: 20  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 988  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 31 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1995-360592 [47] WPINDEX  
DNC C1995-157603  
TI DNA encoding fusion protein of B.pertussis filamentous haemagglutinin and heterologous antigen - useful as vaccines having the same immunogenicity as FHA, partic. for nasal admin.  
DC B04 C06 D16  
IN CAPRON, A; LOCHT, C; MONOZZI, F; RENAUD, G; RIVEAU, G; JACOB-DUBUSSON, F; MENOZZI, F  
PA (INRM) INST NAT SANTE & RECH MEDICALE; (INSP) INST PASTEUR; (INSP) INST PASTEUR LILLE; (INRM) INSERM INST NAT SANTE & RECH MEDICALE  
CYC 21  
PI FR 2718750 A1 19951020 (199547)\* 58p  
WO 9528486 A2 19951026 (199548) FR 62p  
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE  
W: AU CA JP US  
AU 9524121 A 19951110 (199607)  
WO 9528486 A3 19960111 (199622)  
EP 755447 A1 19970129 (199710) FR  
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE  
EP 755447 B1 20030702 (200345) FR  
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE  
DE 69531200 E 20030807 (200359)  
ADT FR 2718750 A1 FR 1994-4661 19940419; WO 9528486 A2 WO 1995-FR512 19950419;  
AU 9524121 A AU 1995-24121 19950419; WO 9528486 A3 WO 1995-FR512 19950419;  
EP 755447 A1 EP 1995-918030 19950419, WO 1995-FR512 19950419; EP 755447 B1  
EP 1995-918030 19950419, WO 1995-FR512 19950419; DE 69531200 E DE  
1995-631200 19950419, EP 1995-918030 19950419, WO 1995-FR512 19950419  
FDT AU 9524121 A Based on WO 9528486; EP 755447 A1 Based on WO 9528486; EP  
755447 B1 Based on WO 9528486; DE 69531200 E Based on EP 755447, Based on  
WO 9528486  
PRAI FR 1994-4661 19940419

L16 ANSWER 32 OF 62 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN DUPLICATE 8

AN 95:56826 BIOBUSINESS  
DN 0730501  
TI Polymerase chain reaction amplification and restriction fragment length polymorphism analysis of 16S rRNA genes from methanogens.  
AU Hiraishi A; Kamagata Y; Nakamura K  
CS Central Res. Lab., Ajinomoto Co. Inc., 1-1 Suzuki-cho, Kawasaki-ku, Kawasaki 210, Japan  
SO Journal of Fermentation and Bioengineering, (1995) Vol.79, No.6, P.523-529.  
ISSN: 0922-338X.  
FS NONUNIQUE  
LA ENGLISH

L16 ANSWER 33 OF 62 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 95:472068 SCISEARCH  
GA The Genuine Article (R) Number: RG766  
TI POLYMERASE CHAIN-REACTION AMPLIFICATION AND RESTRICTION-LENGTH-POLYMORPHISM ANALYSIS OF 16S RIBOSOMAL-RNA GENES FROM METHANOGENS  
AU HIRAI SHI A (Reprint); KAMAGATA Y; NAKAMURA K  
CS AJINOMOTO CO INC, CENT RES LABS, KAWASAKI KU, 1-1 SUZUKI CHO, KAWASAKI, KANAGAWA 210, JAPAN (Reprint); KONISHI CO, ENVIRONM BIOTECHNOL LAB, SUMIDA KU, TOKYO 130, JAPAN; AGCY IND SCI & TECHNOL, NATL INST BIOSCI & HUMAN TECHNOL, TSUKUBA, IBARAKI 305, JAPAN  
CYA JAPAN  
SO JOURNAL OF FERMENTATION AND BIOENGINEERING, (1995) Vol. 79, No. 6, pp. 523-529.  
ISSN: 0922-338X.  
DT Article; Journal  
FS LIFE; AGRI  
LA ENGLISH  
REC Reference Count: 24  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 34 OF 62 USPATFULL on STN  
AN 94:75444 USPATFULL  
TI Fibronectin purification vector  
IN Mosher, Deane F., Madison, WI, United States  
Sottile, Jane M., Madison, WI, United States  
PA Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S. corporation)  
PI US 5342762 19940830  
AI US 1991-637250 19910103 (7)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Wax, Robert C.; Assistant Examiner: Jacobson, Dian C.  
LREP Quarles & Brady  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 489  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 35 OF 62 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS RESERVED. on STN  
AN 1995-0075175 PASCAL  
CP Copyright .COPYRGT. 1995 INIST-CNRS. All rights reserved.  
TIEN Cleavage of immunoglobulin G by excretory-secretory cathepsin S-like protease of Spirometra mansoni plerocercoid  
AU KONG Y.; CHUNG Y.-B.; CHO S.-Y.; KANG S.-Y.  
CS Chung-Ang univ., coll. medicine, dep. parasitology, Seoul 156-756, Korea, Republic of  
SO Parasitology, (1994), 109(5), 611-621, refs. 1 p.1/4  
ISSN: 0031-1820 CODEN: PARAAE  
DT Journal

BL Analytic  
CY United Kingdom  
LA English  
AV INIST-3187, 354000057188700090

L16 ANSWER 36 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1994-01764 BIOTECHABS  
TI Separation of particulate solid catalyst;  
immobilized enzyme recycle by filtration or centrifugation for  
precipitated **product purification**, for use with  
**protease**, thermolysin, amidase, esterase or penicillin-amidase  
PA Novo-Nordisk  
PI WO 9323164 25 Nov 1993  
AI WO 1993-DK159 13 May 1993  
PRAI DK 1992-641 14 May 1992  
DT Patent  
LA English  
OS WPI: 1993-386289 [48]

L16 ANSWER 37 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1993-08215 BIOTECHABS  
TI Astaxanthin preparation;  
from Haematococcus pluvialis  
PA Higashimaru-Shoyu  
PI JP 05068585 23 Mar 1993  
AI JP 1991-231965 11 Sep 1991  
PRAI JP 1991-231965 11 Sep 1991  
DT Patent  
LA Japanese  
OS WPI: 1993-136904 [17]

L16 ANSWER 38 OF 62 USPATFULL on STN  
AN 93:89565 USPATFULL  
TI Purified alkaline protease concentrate and method of preparation  
IN Shetty, Jayarama K., Elkhart, IN, United States  
Patel, Chimanbhai P., Mishawaka, IN, United States  
Nicholson, Mary A., Portazi, MI, United States  
PA Solvay Enzymes, Inc., Houston, TX, United States (U.S. corporation)  
PI US 5256557 19931026  
AI US 1991-813705 19911227 (7)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Sevigny,  
Jeffrey J.  
LREP Willian Brinks Olds Hofer Gilson & Lione  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 1054  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 39 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1992-376304 [46] WPINDEX  
DNC C1992-166949  
TI Peptide(s) useful as angiotensin-converting enzyme inhibitors - obtd. by  
denaturing wheat gluten, adding an acidic **protease**, stirring,  
heating hydrolysed **prod.**, centrifuging and **purifying**  
supernatant.  
DC B04  
PA (KIKK) KIKKOMAN CORP  
CYC 1  
PI JP 04275298 A 19920930 (199246)\* 5p  
ADT JP 04275298 A JP 1991-59286 19910302  
PRAI JP 1991-59286 19910302

L16 ANSWER 40 OF 62 USPATFULL on STN  
AN 91:48559 USPATFULL  
TI Serum free media for the growth on insect cells and expression of products thereby  
IN Inlow, Duane, Oakland, CA, United States  
Maiorella, Brian, Oakland, CA, United States  
PA Cetus Corporation, Emeryville, CA, United States (U.S. corporation)  
PI US 5024947 19910618  
AI US 1987-77303 19870724 (7)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Weimar, Elizabeth C.; Assistant Examiner: Chambers, Jasemine C.  
LREP Lauder, Leona L., Wong, Wean Khing  
CLMN Number of Claims: 14  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 1552

L16 ANSWER 41 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1991-087276 [12] WPINDEX  
DNC C1991-037110  
TI Production of alkaline protease in Bacillus - for purification of the introduced protease gene product.  
DC D16 D25  
IN BAHN, M; HANSEN, D; HOM, S S M; KENNEDY, N C T; LADIN, B F; MARKGRAF, M; MIELENZ, J R; PAECH, C; REYNOLDS, R B; SCHINDLER, J; SCHMID, R; WILSON, C R; MAURER, K; HOM, S S; KENNEDY, N C; SCHNEIDE, R J  
PA (HENK) HENKEL RES CORP; (HENK) HENKEL AMERICA INC; (HENK) HENKEL KGAA  
CYC 17  
PI WO 9102792 A 19910307 (199112)\* 85p  
RW: AT BE CH DE DK ES FR GB IT LU NL SE  
W: CA JP KR  
EP 493398 A1 19920708 (199228) EN 85p  
R: AT BE CH DE DK ES FR GB IT LI LU NL SE  
JP 04507346 W 19921224 (199306) 35p  
US 5352604 A 19941004 (199439) 47p  
EP 493398 B1 19991208 (200002) EN  
R: AT BE CH DE DK ES FR GB IT LI LU NL SE  
DE 69033388 E 20000113 (200010)  
ES 2144990 T3 20000701 (200036)  
KR 200166 B1 19990615 (200060)  
JP 3220137 B2 20011022 (200169) 64p  
ADT EP 493398 A1 EP 1990-912607 19900817, WO 1990-US4673 19900817; JP 04507346 W JP 1990-511917 19900817, WO 1990-US4673 19900817; US 5352604 A Cont of US 1989-398854 19890825, US 1993-33080 19930310; EP 493398 B1 EP 1990-912607 19900817, WO 1990-US4673 19900817; DE 69033388 E DE 1990-633388 19900817, EP 1990-912607 19900817, WO 1990-US4673 19900817; ES 2144990 T3 EP 1990-912607 19900817; KR 200166 B1 KR 1991-700414 19910425; JP 3220137 B2 JP 1990-511917 19900817, WO 1990-US4673 19900817  
FDT EP 493398 A1 Based on WO 9102792; JP 04507346 W Based on WO 9102792; EP 493398 B1 Based on WO 9102792; DE 69033388 E Based on EP 493398, Based on WO 9102792; ES 2144990 T3 Based on EP 493398; JP 3220137 B2 Previous Publ. JP 04507346, Based on WO 9102792  
PRAI US 1989-398854 19890825

L16 ANSWER 42 OF 62 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN  
AN 90:2637 DISSABS Order Number: AARC171089 (not available for sale by UMI)  
TI PROTEOLYTIC DEGRADATION OF RECOMBINANT FUSION PROTEINS EXPRESSED IN BACTERIA  
AU HELLEBUST, HALLDIS [TEKN.DR]

CS KUNGLIGA TEKNISKA HOGSKOLAN (SWEDEN) (1022)  
SO Dissertation Abstracts International, (1990) Vol. 52, No. 2C, p. 250.  
Order No.: AARC171089 (not available for sale by UMI). ROYAL INSTITUTE OF  
TECHNOLOGY, S-100 44 STOCKHOLM 70, SWEDEN. 95 pages.

DT Dissertation

FS DAI

LA English

ED Entered STN: 19921118

Last Updated on STN: 19921118

L16 ANSWER 43 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

AN 1990-02667 BIOTECHABS

TI Toxicity of protease-resistant domains from the delta-endotoxin of  
Bacillus thuringiensis subsp. israelensis in Culex quinquefasciatus and  
Aedes aegypti bioassays;

comparison of chymotrypsin-digested and undigested endotoxin

AU Pfannenstiel M A; Cray Jr W C; Couche G A; \*Nickerson K W

LO School of Biological Sciences, University of Nebraska, Lincoln, Nebraska  
68588-0343, USA.

SO Appl. Environ. Microbiol.; (1990) 56, 1, 162-66

CODEN: AEMIDF

DT Journal

LA English

L16 ANSWER 44 OF 62 USPATFULL on STN

AN 89:56231 USPATFULL

TI Synthetic bovine parainfluenza viral proteins

IN Rice, John M., Westerville, OH, United States

PA W. R. Grace & Co.-Conn., New York, NY, United States (U.S. corporation)

PI US 4847081 19890711

AI US 1987-14499 19870330 (7)

RLI Division of Ser. No. US 1984-632106, filed on 18 Jul 1984, now patented,  
Pat. No. US 4743553

DT Utility

FS Granted

EXNAM Primary Examiner: Hazel, Blondel

LREP Krafte, Jill H.

CLMN Number of Claims: 4

ECL Exemplary Claim: 1,3

DRWN 4 Drawing Figure(s); 4 Drawing Page(s)

LN.CNT 963

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 45 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1990-084042 [12] WPINDEX

DNN N1990-064807 DNC C1990-036892

TI Removing gelating layers from photographic film - by washing in presence  
of enzyme from streptomyces rimosus fermentation for oxytetracycline.

DC D16 G06 M25 P83

IN HESS, W; KNABE, K; KOHLER, W; MULLER, P J; OZEGOWSKI, J H; SCHMIDT, D;  
SCHORNING, D

PA (DEAK) AKAD WISSENSCHAFTEN DDR

CYC 1

PI DD 272531 A 19891011 (199012)\* 5p

ADT DD 272531 A DD 1988-316308 19880602

PRAI DD 1988-316308 19880602

L16 ANSWER 46 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

AN 1989-04204 BIOTECHABS

TI Arginine-containing peptide production;

by reacting reactive ester with unprotected arginine ester in presence  
of protease, e.g. papain or bromelain

PA Karl-Marx-Univ.DDR

PI DD 260084 14 Sep 1988

AI DD 1987-301949 20 Apr 1987  
PRAI DD 1987-301949 20 Apr 1987  
DT Patent  
LA German  
OS WPI: 1989-016165 [03]

L16 ANSWER 47 OF 62 USPATFULL on STN  
AN 88:29375 USPATFULL  
TI Synthetic genes for bovine parainfluenza virus  
IN Rice, John M., Westerville, OH, United States  
PA W. R. Grace & Co., New York, NY, United States (U.S. corporation)  
PI US 4743553 19880510  
AI US 1984-632106 19840718 (6)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Hazel, Blondel  
LREP Krafte, Jill H.  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1,7  
DRWN 4 Drawing Figure(s); 9 Drawing Page(s)  
LN.CNT 970  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 48 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1988-318075 [45] WPINDEX  
DNC C1988-140358  
TI Compsn. used for **purifying protease prods.** -  
containing chemically modified serine **protease** with affinity ligand  
activity but no catalyst activity.  
DC D16  
PA (TAKI) TAKARA SHUZO CO LTD  
CYC 1  
PI JP 63233788 A 19880929 (198845)\* 9p  
JP 07121222 B2 19951225 (199605) 8p  
ADT JP 63233788 A JP 1987-67879 19870324; JP 07121222 B2 JP 1987-67879  
19870324  
FDT JP 07121222 B2 Based on JP 63233788  
PRAI JP 1987-67879 19870324

L16 ANSWER 49 OF 62 CABA COPYRIGHT 2004 CABI on STN  
AN 88:25815 CABA  
DN 19880710584  
TI Purification and characterization of two glycopeptide hydrolases from jack  
beans  
AU Yet, M. G.; Wold, F.  
CS Dep. Biochem. and Molecular Biol., Univ. Texas Med. School, Houston, TX  
77225, USA.  
SO Journal of Biological Chemistry, (1988) Vol. 263, No. 1, pp. 118-122. 19  
ref.  
ISSN: 0021-9258  
DT Journal  
LA English  
ED Entered STN: 19941101  
Last Updated on STN: 19941101

L16 ANSWER 50 OF 62 USPATFULL on STN  
AN 86:6502 USPATFULL  
TI Thrombolytic agent  
IN Mihara, Hisashi, 2754-15, Hongominamikata, Miyazaki-shi, Miyazaki-ken,  
Japan  
Sumi, Hiroyuki, Miyazaki, Japan  
Matsuura, Akira, Kasugai, Japan  
Inukai, Tadahiko, Nagoya, Japan  
PA Amano Seiyaku Kabushiki Kaisha, Aichi, Japan (non-U.S. corporation)

PI Mihara, Hisashi, Miyazaki, Japan (non-U.S. individual)  
US 4568545 19860204  
AI US 1983-508163 19830627 (6)  
PRAI JP 1982-173669 19821002  
JP 1983-55460 19830331  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Shapiro, Lionel M.  
LREP Brisebois & Kruger  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN 48 Drawing Figure(s); 20 Drawing Page(s)  
LN.CNT 2419  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 51 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1986-160663 [25] WPINDEX  
DNC C1986-069011

TI Odour-free proteolytic enzyme compsn. - containing other enzymes such as  
amylolytic, lipolytic and cellulolytic enzymes to enhance smell removal.

DC D22

PA (ANON) ANONYMOUS

CYC 1

PI RD 265054 A 19860510 (198625)\*

PRAI RD 1986-265054 19860420

L16 ANSWER 52 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1986-09391 BIOTECHABS

TI Identification of the pleiotropic sacQ gene of *Bacillus subtilis*;  
isolation of gene **product** and role in  
protease hyperproduction

AU Yang M; Ferrari E; Chen E; \*Henner D J

CS Genentech

LO Department of Cell Genetics, Genentech, Inc., South San Francisco,  
California 94080, USA.

SO J.Bacteriol.; (1986) 166, 1, 113-19

CODEN: JOBAAY

DT Journal

LA English

L16 ANSWER 53 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 1987-01925 BIOTECHABS

TI Isolation and purification of r-(Ac)-eglin C from 3000 l of culture  
broth;  
using the Zeta-Prep ionexchange system (conference abstract)

AU Bill K; Walliser H P

CS CIBA-Geigy

LO Pharmaceuticals Division, CIBA-Geigy Limited, K-693.1.23 - CH-4002  
Basel/Switzerland.

SO Abstr.Pap.Am.Chem.Soc.; (1986) 192 Meet., MBTD 17  
CODEN: ACSRAL

DT Journal

LA English

L16 ANSWER 54 OF 62 USPATFULL on STN

AN 85:26824 USPATFULL

TI Compositions containing odor purified proteolytic enzymes and perfumes  
IN Moeddel, Robert W., Cincinnati, OH, United States

PA The Procter & Gamble Company, Cincinnati, OH, United States (U.S.  
corporation)

PI US 4515705 19850507

AI US 1984-591622 19840320 (6)

RLI Continuation-in-part of Ser. No. US 1983-551378, filed on 14 Nov 1983,  
now abandoned

DT Utility  
FS Granted  
EXNAM Primary Examiner: Kittle, John E.; Assistant Examiner: Shah, Mukund J.  
LREP Hasse, Donald E., Ayler, Robert B., O'Flaherty, Thomas H.  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 570  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 55 OF 62 LIFESCI COPYRIGHT 2004 CSA on STN  
AN 83:11239 LIFESCI  
TI Extracellular products of type III Streptococcus agalactiae and their relationship to virulence.  
AU Durham, D.L.; Straus, D.C.  
CS Dep. Microbiol., Univ. Texas Health Sci. Cent. at San Antonio, San Antonio, TX 78284, USA  
SO CURR. MICROBIOL., (1983) vol. 8, no. 2, pp. 95-100.  
DT Journal  
FS J  
LA English  
SL English

L16 ANSWER 56 OF 62 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
DUPLICATE  
AN 1983:13082538 BIOTECHNO  
TI Extracellular products of type III Streptococcus agalactiae and their relationship to virulence  
AU Durham D.L.; Straus D.C.  
CS Dep. Microbiol., Univ. Texas Health Sci. Cent., San Antonio, TX 78284, United States.  
SO Current Microbiology, (1983), 8/2 (89-94)  
CODEN: CUMIDD  
DT Journal; Article  
CY United States  
LA English

L16 ANSWER 57 OF 62 USPATFULL on STN  
AN 78:13595 USPATFULL  
TI Intralenticular cataract surgery  
IN Spina, Joseph, Bryn Mawr, PA, United States  
Weibel, Michael K., Philadelphia, PA, United States  
PA Novo Enzyme Corporation, Mamaroneck, NY, United States (U.S. corporation)  
PI US 4078564 19780314  
AI US 1976-660873 19760224 (5)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Pace, Channing L.  
LREP Fidelman, Wolffe & Waldron  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 497  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 58 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1976-07839X [05] WPINDEX  
TI Substance for treating cerebral disorders - prepared by enzymatic hydrolysis of reaction product of albumin with fatty acid.  
DC B04  
PA (CHUS) CHUGAI PHARM CO LTD  
CYC 5  
PI DE 2529291 A 19760122 (197605)\*

JP 51007109 A 19760121 (197610)  
FR 2276831 A 19760305 (197617)  
GB 1477548 A 19770622 (197725)  
US 4067963 A 19780110 (197804)  
JP 60046092 B 19851014 (198545)  
PRAI JP 1974-74303 19740701

L16 ANSWER 59 OF 62 USPATFULL on STN

AN 71:44839 USPATFULL  
TI PURIFICATION AND RECOVERY OF ALKALINE PROTEASE USING CATIONIC-EXCHANGE RESIN

IN Keay, Leonard, Florissant, MO, United States  
PA Monsanto Company, St. Louis, MO, United States  
PI US 3623955 19711130  
AI US 1968-752461 19680814 (4)

DT Utility  
FS Granted

EXNAM Primary Examiner: Shapiro, Lionel M.

LREP Hueschen; Gordon W., Hueschen and Kurlandsky, Upham; John D.

CLMN Number of Claims: 6

DRWN No Drawings

LN.CNT 745

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 60 OF 62 FEDRIP COPYRIGHT 2004 NTIS on STN

AN 2004:125955 FEDRIP

NR AGRIC 0186699

TI Characterization of Hexokinase, and Enzyme Involved in Regulating Expression of Mannitol Dehydrogenase

SF Principal Investigator: (molecular weight)  
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Williamson, J. D.

CSP NORTH CAROLINA STATE UNIV, HORTICULTURAL SCIENCE, RALEIGH, NORTH CAROLINA, 27695

FU HATCH |c H

FS Department of Agriculture

L16 ANSWER 61 OF 62 RDISCLOSURE COPYRIGHT 2004 KENNETH MASON PUBL. on STN

AN 265054 RDISCLOSURE

TI Reduction of malodours

PA Anonymous

PI RD 265054 19860510

PRAI RD1986-265054 19860420

SO Research Disclosure, 1986 05, 265  
CODEN: RSDSBB; ISSN: 0374-4353

DT Patent

GIS 23152

L16 ANSWER 62 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1970-67979R [38] WPINDEX

TI Biochemical prodn of acid protease.

DC B04 D16

PA (DOI-I) DOI S AND UCHINO F

CYC 1

PI JP 45030193 B (197038)\*

PRAI JP 1967-9463 19670213